

Document 00910

ADDENDUM NO. 1

Date of Addendum: 5/1/15

PROJECT NAME: Wirt Road Drainage and Paving Sub Project II

PROJECT NO: WBS No. M-000287-0002-4

BID DATE: May 7, 2015 (There is no change to the Bid Date.)

FROM: J. Timothy Lincoln, P.E., City Engineer
City of Houston, Public Works and Engineering Department
611 Walker
Houston, Texas 77002
Attn: Marcus Stuckett, P.E., Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.

CHANGES TO PROJECT MANUAL

BIDDING REQUIREMENTS

1. Document 00410 – Bid Form, Part B. Remove the document in its entirety and replace with the revised Document 00410 – Bid form, Part B.
2. Document 01110 – Summary of Work. Remove the document in its entirety and replace with the revised Document 01110 – Summary of Work

CHANGES TO DRAWINGS

3. Delete Sheets 148 and 150-152 and replace with revised Sheets 148 and 150-152.

CLARIFICATIONS

4. Document 01110 – Summary Work Section 1.02.E states that “If Contractor encounters water service lines during sanitary sewer construction, Contractor shall repair any damaged service lines promptly to avoid extended water service interruptions. The cost related to preserving the existing water service lines are incidental to all other pay items and are at no additional cost to the City of Houston.” If these lines need to be adjusted or replaced a bid item is needed to cover this cost.

Answer: All water service lines that are not being replaced due to construction of new water line are assumed to be in good working order and will not conflict with proposed improvements, therefore a bid item for adjustment or replacement of existing water service lines is not necessary.

5. Document 01110 Summary of Work Section 1.02.M states removal of signs is incidental to installation of new signs. Bid item 2 “Remove Traffic Sign – 30 EA”. Please clarify.

Answer: Bid Item 2 is for the signs that are to be removed and disposed of only. For the signs that are to be removed and reinstalled, the cost to remove, and if necessary store them, is incidental to the cost of reinstallation. This cost is paid for under Bid Item 3 or 4 depending on what sign is reinstalled.

6. TCP and Summary of Work Section 1.02.P call for no more than 800 LF segments under construction. This project cannot be built 800 LF at a time. TCP phasing does not show this and Bid Item 6 (Install low profile concrete barriers) calls to install 4,160 LF at a time.

Answer: The 800 LF limits is not a hard limit. If contractor needs to exceed the 800 LF limits, they are to notify and get approval from the City of Houston’s Project Manager before doing so. Please note that the 800 LF segments are “rolling 800-foot active traffic control steps” as stated in Section 1.02.P in Document 01110 and on the traffic control plans in the bid set. See sheet 110 for typical rolling closure detail. The 800-foot steps are not shown on the plans since it is an active rolling closure. Low profile concrete barriers (LPCB) are mainly to be used within the Shoshone/Kilburn neighborhood. As shown on the TCP plans,

the roads within the neighborhood will mainly be one way once construction reaches the neighborhood. LPCB are needed in the neighborhood due the elevation difference between the proposed and existing roadways.

7. Please clarify Section 1.02.U In Document 01110 – Summary of Work. Specifications state that certified flagmen may be used. Document 01110 says to use uniformed officers. Can flagmen be used instead of uniformed officers?

Answer: Use uniformed police officers as stated in Specification 01555. Certified flagmen may be used were uniformed police officers are not required.

8. The sanitary pay item calls out sewer in tunnel but on the plans it calls out trenchless construction. Which is correct?

Answer: The pay item is correct.

9. What can be used in lieu of the 21" centrifugally cast fiberglass pipe?

Answer: Please refer to Specification 02105 Section 2.01.C for alternative materials.

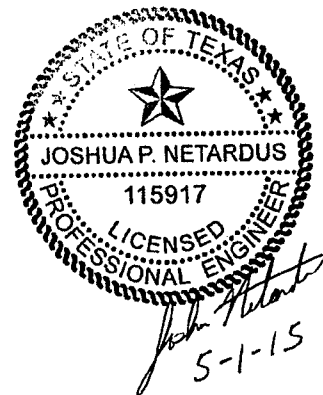
END OF ADDENDUM NO. 1


Ravi Kaleyatodi, P.E., CFM
Senior Assistant Director
Engineering Branch
Engineering and Construction Division

DATED: 5/1/15

END OF DOCUMENT

00910-3
02-01-2004
Addendum No. 1



Document 00911

NOTICE OF
ADDENDUM NO. 1

Date of Addendum: 5/1/15

PROJECT NAME: Wirt Road Drainage and Paving Sub Project II

PROJECT NO: M-000287-0002-4

BID DATE: May 7, 2015 (There is no change to the Bid Date.)

FROM: Ravi Kaleyatodi, P.E., CFM, Senior Assistant Director
City of Houston, Public Works and engineering Department
611 Walker St., 15th Floor
Houston, Texas 77002
Attn: Marcus Stuckett, P.E., Project Manager

TO: Prospective Bidders

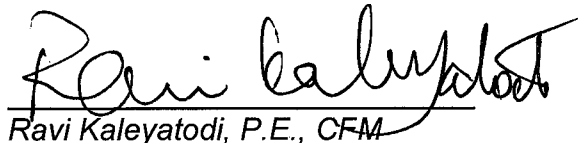
The referenced Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable.

Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200 – Instructions to Bidders. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Bid Documents.

This Addendum includes:

ADDENDUM SYNOPSIS

Changes to Project Manual
Bidding Requirements
Changes to Drawings
Clarifications


Ravi Kaleyatodi, P.E., CFM

Senior Assistant Director
Engineering Branch
Engineering and Construction Division

DATED: 5/1/15

END OF DOCUMENT

Document 00410B

BID FORM - PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE: _____ **N/A**

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowances and All Alternates, if any)

B. BASE UNIT PRICE TABLE (FOR GENERAL ITEMS):

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
1	01502	Mobilization	LS	1	\$900,000 ⁽¹⁾	\$900,000 ⁽¹⁾
2	01554	Remove traffic sign	EA	30		
3	01554	Traffic signs	EA	35		
4	01554	Street name signs	EA	26		
5	01555	Traffic Control and Regulation	LS	1	\$ <u> </u> \$300,000.00 ⁽²⁾	\$ <u> </u> \$300,000.00 ⁽²⁾
6	01555	Install low profile concrete barriers	LF	4,160		
7	01555	Relocate low profile concrete barriers	LF	3,400		
8	01555	Remove low profile concrete barriers	LF	4,160		
9	01555	Flagmen	LS	1	\$ <u> </u> \$130,000.00 ⁽²⁾	\$ <u> </u> \$130,000.00 ⁽²⁾
10	01562	Tree and plant protection	LS	1	\$ <u> </u> \$35,000.00 ⁽²⁾	\$ <u> </u> \$35,000.00 ⁽²⁾
11	01562	Install Curb Cutback	LF	115		
12	01570	Inlet Protection	EA	45		
13	01570	Reinforced Filter Fabric Fence	LF	90		
14	01575	Stabilized construction exit	EA	4		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
15	01578	Ground Water Control for Open-Cut Construction	LF	250		
16	02086	Adjust Existing Manhole Frame and Cover to New Grade	EA	18		
17	02105	Preparatory Work for Sampling and Analysis within PPCA	LS	1	\$ <u>50,000.00⁽²⁾</u>	\$ <u>50,000.00⁽²⁾</u>
18	02120	Transportation and Disposal of Contaminated Groundwater in PPCA	GAL	1,000		
19	02120	Transportation and Disposal of Class I Soils	CY	1,500		
20	02120	Transportation and Disposal of Class II Soils	CY	7,000		
21	02221	Remove and Dispose of Existing Manholes	EA	2		
22	02221	Remove and dispose of storm manhole within PPCA Limits	EA	1		
23	02221	Remove/Dispose Inlet all size/depth	EA	28		
24	02221	Remove/Dispose Inlet all size/depth within PPCA Limits	EA	7		
25	02221	Remove and Dispose of existing junction box all sizes/depths	EA	2		
26	02221	Remove/Dispose storm pipe 30-inch dia (RCP) within PPCA Limits	LF	39		
27	02221	Remove/Dispose storm pipe 24-inch dia (RCP)	LF	771		
28	02221	Remove/Dispose storm pipe 24-inch dia (RCP) within PPCA Limits	LF	390		
29	02221	Remove/Dispose storm pipe 24-inch dia (PVC)	LF	17		
30	02221	Remove/Dispose storm pipe 24-inch dia (STEEL)	LF	60		
31	02221	Remove/Dispose storm pipe 18-inch dia (RCP)	LF	1,189		
32	02221	Remove/Dispose storm pipe 18-inch dia (RCP) within PPCA Limits	LF	158		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
33	02221	Remove/Dispose storm pipe 18-inch dia (CPP)	LF	99		
34	02221	Remove/Dispose storm pipe 18-inch dia (PVC)	LF	12		
35	02221	Remove/Dispose storm pipe 15-inch dia (RCP)	LF	415		
36	02221	Remove/Dispose storm pipe 15-inch dia (RCP) within PPCA Limits	LF	26		
37	02221	Remove/Dispose storm pipe 15-inch dia (CMP)	LF	12		
38	02221	Remove/Dispose storm pipe 12-inch dia (RCP)	LF	211		
39	02221	Remove/Dispose 8-inch diameter AC water line	LF	80		
40	02221	Remove/Dispose 8-inch diameter CI water line	LF	20		
41	02221	Remove/Dispose 8-inch diameter STL water line within PPCA Limits	LF	20		
42	02221	Remove/Dispose 12-inch diameter CI water line	LF	40		
43	02233	Clearing and grubbing	Ac	15		
44	02260	Trench Safety System for Trench Excavations	LF	16,100		
45	02915	Tree Planting	EA	100		
46	02921	Hydromulch Seeding	AC	9		
47	02922	Sodding	SY	3,192		
48	01740S	Remove, Store, and Replace Specialty Fence	LF	100		
49	Per Dwg	Remove existing metal/concrete bollard	EA	4		
50	Per Dwg	Remove and relocated existing historical marker	EA	2		
51	Per Dwg	Type III Barricade	EA	2		
TOTAL BASE UNIT PRICES (FOR GENERAL ITEMS)						\$ _____

B. BASE UNIT PRICE TABLE (FOR PAVING ITEMS):

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
52	02221	Remove/Dispose Concrete Sidewalk 4-inch thick/More	SY	4,313		
53	02221	Remove/Dispose Concrete Driveway 6-inch thick/More	SY	7,753		
54	02221	Remove/Dispose Asphalt Surface/with or without Base, all thicknesses	SY	6,908		
55	02221	Remove/Dispose of Reinforced Concrete Pavement with Asphalt Overlay/with or without Base/with or without Curb	SY	32,922		
56	02315	Roadway Excavation with or without subgrade	CY	22,778		
57	02336	Lime-for Lime Stabilized Subgrade (based on 6% by weight)	TON	885		
58	02336	Lime Stabilized Subgrade, 8-inch	SY	39,420		
59	02336	Lime Stabilized Subgrade, 6-inch	SY	11,036		
60	02581	Street lighting conduit, 2-inch PVC, Schedule 80	LF	720		
61	02581	Street lighting conduit, 2-inch PVC, Schedule 40	LF	60		
62	02581	Install Pull Boxes	EA	5		
63	02711	Hot Mix Asphalt Base Course (Type A) 8-inch thick	TON	295		
64	02714	Flexible Base Course/temp driveways Residential (all widths)	EA	60		
65	02714	Flexible Base Course/temp driveways Commercial (all widths)	EA	78		
66	02741	Hot Mix Asphalt Concrete Pavement 2-inch thick	TON	210		
67	02741	Temporary Asphalt Concrete Pavement for detour/ Roadway and shoulder	SY	2,400		
68	02751	Reinforced Concrete Pavement 6-inch thick	SY	9,781		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
69	02751	Reinforced Concrete Pavement 10-inch thick	SY	33,166		
70	02751	High Early Strength Reinforced Con Pav 10-inch thick	SY	3,140		
71	02752	Street Pavement Expansion Joint with Load Transfer	LF	6,941		
72	02752	Horizontal Dowel, 24-inch	EA	200		
73	02752	Preformed Expansion Joints	LF	9,359		
74	02754	Concrete Driveways including Excavation 6-inch thick	SF	23,416		
75	02754	Concrete Driveways including Excavation 7-inch thick	SF	31,672		
76	02762	Blast cleaning pavement markers 4-inch wide lines	LF	9,500		
77	02762	Blast cleaning pavement markers 6-inch wide lines	LF	10,500		
78	02762	Blast cleaning pavement markers 12-inch wide lines	LF	1,500		
79	02762	Blast cleaning pavement markers 24-inch wide lines	LF	50		
80	02762	Blast cleaning pavement markers SYMBOLS and ARROW (temporary and permanent)	EA	15		
81	02762	Remove raised pavement markers all types	LS	1		
82	02764	Raised Pav Marker TY I with one face Reflective (W/Y)	EA	175		
83	02764	Raised reflective pavement markers (double-sided) (TY II-C-R) (blue) at fire hydrant locations	EA	500		
84	02764	Raised reflective pavement markers (double-sided) (TY II-A-A)	EA	200		
85	02765	Temporary Pavement Markers Class I	LF	51,186		
86	02765	Temporary Pavement Marking 4-inch wide White/Yellow (SLD/BRK)	LF	59,676		
87	02765	Temporary pavement marking, 8-inch wide, white/yellow (SLD/BRK)	LF	1,300		
88	02765	Temporary pavement marking, 24-inch wide, white/yellow (SLD/BRK)	LF	988		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
89	02765	Temporary pavement marking symbol ARROW	EA	27		
90	02767	Thermoplastic Pavement Marking 4-inch wide White(BRK)	LF	9,500		
91	02767	Thermoplastic pavement marking, 4-inch wide, double yellow (SLD)	LF	1,750		
92	02767	Thermoplastic pavement marking, 6-inch wide, white (SLD)	LF	11,250		
93	02767	Thermoplastic pavement marking, 12-inch wide, white	LF	1,800		
94	02767	Thermoplastic pavement marking, 12-inch wide, yellow	LF	2,200		
95	02767	Thermoplastic pavement marking, 24-inch wide, white	LF	450		
96	02767	Thermoplastic pavement marking, 24-inch wide, yellow	LF	50		
97	02767	Thermoplastic Pavement Marking, Turning Arrows	EA	30		
98	02767	Thermoplastic Pavement Marking, Elongated Word "ONLY"	EA	4		
99	02767	Thermoplastic Pavement Marking, symbol Bike Lane and Turning Arrows	EA	22		
100	02771	6-inch Concrete Curb (monolithic)	LF	16,717		
101	02771	Concrete Paving Header	LF	112		
102	02771S/per DWG	Reinforced concrete curb type toe wall / retaining wall per sheet 70, all heights	LF	246		
103	02772	6-inch Concrete Median or Directional Island	SY	591		
104	02775	Sidewalk 4-1/2-inch thick	SF	59,789		
105	02775	Curb Ramp	SF	6,281		
106	02960	Milling Asphalt Pavement up to 2-inch thick	SY	1,367		
107	02983	Remove, store and replace brick pavers	SY	35		
TOTAL BASE UNIT PRICES (FOR PAVING ITEMS)						\$ _____

B. BASE UNIT PRICE TABLE (FOR STORM SEWER ITEMS):

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
108	02081 02082 02087	Type "C" manhole for 42-inch diameter and smaller sewers	EA	14		
109	02081 02082 02087	Type "C" manhole for 42-inch diameter and smaller sewers within PPCA limits	EA	4		
110	02082	Extra Depth manhole (Type "C" manhole for 42-inch diameter and smaller sewers)	VF	30		
111	02082	Extra Depth manhole (Type "C" manhole for 42-inch diameter and smaller sewers) within PPCA limits	VF	13		
112	02081 02082 02087	Type "C" manhole for 48-inch to 72-inch diameter sewers	EA	5		
113	02081 02082 02087	Type "C" manhole for 48-inch to 72-inch diameter sewers within PPCA Limits	EA	2		
114	02082	Extra Depth Manhole (Type "C" Manhole for 48-inch to 72-inch Diameter Sewers)	VF	28		
115	02082	Extra Depth manhole (Type "C" manhole for 48-inch to 72-inch diameter sewers) within PPCA	VF	11		
116	02631	54-inch Diameter Storm Sewer by Open Cut	LF	1,724		
117	02631	54-inch diameter storm sewer by open cut within PPCA Limits	LF	319		
118	02631	42-inch diameter storm sewer by open cut	LF	7		
119	02631	42-inch diameter storm sewer by open cut within PPCA Limits	LF	39		
120	02631	30-inch Diameter Storm Sewer by Open Cut	LF	1,015		
121	02631	30-inch diameter storm sewer by open cut within PPCA limits	LF	528		
122	02631	24-inch Diameter Storm Sewer by Open Cut	LF	293		
123	02631	24-inch Diameter Storm Sewer Lead	LF	1,025		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
124	02631	24-inch diameter storm sewer leads within PPCA Limits	LF	184		
125	02631	15-inch storm sewer	LF	27		
126	02631	15-inch storm sewer within PPCA Limits	LF	15		
127	02631	12-inch storm sewer	EA	116		
128	02632 02633	Type BB Inlet	EA	36		
129	02632 02633	Type "BB" inlet within PPCA Limits	EA	9		
130	TxDOT 465	Type "C" inlet with PPCA Limits	EA	1		
131	02633	Junction Box with Lid or Grate Top for Storm Sewer	EA	9		
132	04210	8" Thick Brick Plug	EA	20		
TOTAL BASE UNIT PRICES (FOR STORM ITEMS)						\$ _____

B. BASE UNIT PRICE TABLE (FOR WASTEWATER ITEMS):

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
133	02082	4-foot diameter precast concrete manhole	EA	25		
134	02082	4-foot dia precast concrete manhole within PPCA	EA	4		
135	02082	Extra depth, 4-foot diameter precast concrete manhole	VF	185		
136	02082	Extra depth, 4-foot diameter precast concrete manhole within PPCA	VF	34		
137	02082	6-foot diameter precast concrete manhole	EA	7		
138	02082	6-foot dia precast concrete manhole within PPCA	EA	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
139	02082	Extra depth, 6-foot diameter precast concrete manhole	VF	134		
140	02082	Extra depth, 6-foot diameter precast concrete manhole within PPCA	VF	19		
141	02082	Manhole drops; 6-inch diameter, all depths	EA	9		
142	02082	Manhole drops; 8-inch diameter, all depths	EA	2		
143	02082	Manhole drops; 12-inch diameter, all depths	EA	1		
144	02222	Abandon and fill manhole	EA	14		
145	02222	Abandon and fill manhole within PPCA	EA	3		
146	02222	Abandon and fill 8-inch diameter sewer	LF	3696		
147	02222	Abandon and fill 8-inch diameter sewer within PPCA	LF	703		
148	02400	Tunnel shafts (all shafts, all dimensions)	LS	1		
149	02531	6-inch diameter sanitary sewer, by open-cut	LF	202		
150	02531	8-inch diameter sanitary sewer, by open-cut	LF	3163		
151	02531	8-inch diameter sanitary sewer, by open-cut within PPCA limits	LF	78		
152	02531	10-inch diameter sanitary sewer, by open-cut	LF	576		
153	02531	10-inch diameter sanitary sewer, by open-cut within PPCA	LF	514		
154	02531	12-inch diameter sanitary sewer, by open-cut	LF	1195		
155	02531	12-inch diameter sanitary sewer, by open-cut within PPCA Limits	LF	227		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
156	02426	12-inch diameter sanitary sewer, in tunnel	LF	167		
157	02426	15-inch diameter sanitary sewer, in tunnel	LF	58		
158	02426	21-inch diameter sanitary sewer, in tunnel	LF	1217		
159	02426	21-inch diameter sanitary sewer, in tunnel within PPCA Limits	LF	225		
160	02426	24-inch diameter sanitary sewer, in tunnel	LF	1359		
161	02426	24-inch diameter sanitary sewer, in tunnel within PPCA Limits	LF	323		
162	02534	Service stubs or reconnections including construction of stack on sanitary sewer	EA	53		
163	02534	Service stubs or reconnections including construction of stack on sanitary sewer within PPCA Limits	EA	4		
TOTAL BASE UNIT PRICES (FOR WASTEWATER ITEMS)						\$ _____

B. BASE UNIT PRICE TABLE (FOR WATER ITEMS):

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
164	02511	8-inch Diameter Water Line by Open-cut	LF	384		
165	02511	8-inch diameter water line by open-cut within PPCA limits	LF	58		
166	02511	12-inch diameter water by trenchless construction	LF	4,792		
167	02511	12-inch diameter water by trenchless construction within PPCA Limits	LF	475		
168	02511	12-inch diameter DIP water line by trenchless construction with restrained joints within PPCA Limits	LF	20		
169	02511	12-inch diameter flexible expansion joint at fault line crossing	EA	14		
170	02512	3/4-inch to 1-inch diameter water taps and copper service line with meter box, short side	EA	5		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
171	02512	3/4-inch to 1-inch diameter watertaps and copper service line with meter box, long side	EA	21		
172	02512	1-1/2-inch to 2-inch diameter watertap and service line with meter box, short side	EA	3		
173	02512	1-1/2-inch to 2-inch diameter watertaps and service line with meter box, long side	EA	8		
174	02513	12-inch diameter wet connection	EA	3		
175	02513	8-inch diameter wet connection	EA	9		
176	02513	8-inch diameter wet connection within PPCA limits	EA	1		
177	02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	9		
178	02516	Cut, plug, and abandon existing 8-inch diameter water line within PPCA limits	EA	1		
179	02516	Cut, plug, and abandon existing 12-inch diameter water line	EA	7		
180	02520	Fire Hydrant Assembly, All Depths, Including 6-inch Diameter Gate Valve and Box	EA	14		
181	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box within PPCA Limits	EA	2		
182	02520	6-inch diameter fire hydrant branch by open cut	EA	266		
183	02520	6-inch diameter DIP fire hydrant branch by open cut with restrained joints, within PPCA Limits	EA	38		
184	02520	Remove and Salvage Existing Fire Hydrant	EA	7		
185	02520	Remove and slavage existing fire hydrant within PPCA limits	EA	2		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
186	02525	8-inch by 6-inch diameter tapping sleeve and valve within PPCA Limits	EA	2		
187	02525	12-inch by 12-inch Diameter Tapping Sleeve and Valve with Box	EA	2		
188	02526	5/8-inch diameter meter including piping, vault, and appurtenances	EA	2		
189	02086	Adjust Meter Box to New Grade	EA	30		
TOTAL BASE UNIT PRICES (FOR WATER ITEMS)						\$ _____

B. BASE UNIT PRICES (FOR TRAFFIC SIGNAL ITEMS):

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
190	02221	REMOVE EXISTING POLE FOUNDATION	EA	6		
191	02582	4-1/2 INCH POLE, SCREW IN FOUNDATION	EA	7		
192	02582/02465	25-FT. MAST ARM POLE ASSEMBLY	EA	2		
193	02582/02465	35-FT. MAST ARM POLE ASSEMBLY	EA	2		
194	02582/02465	40-FT. MAST ARM POLE ASSEMBLY	EA	2		
195	02582/02465	45-FT. MAST ARM POLE ASSEMBLY	EA	1		
196	02893	ELECTRICAL SERVICE PEDESTAL ASSEMBLY - 30 AMP & 60 AMP ("SQUARE D" BREAKERS INCLUDED)	EA	2		
197	02893	REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA	2		
198	02893	OVERHEAD STREET NAME SIGNS	EA	7		
199	02893	SIGN (R10-17T) "LEFT TURN YIELD ON FLASHING YELLOW ARROW"	EA	10		
200	02893	SIGN (R3-8 (R/L) "LEFT AND RIGHT ARROW"	EA	1		
201	16710	TYPE "A" PULL BOX WITH GRAVEL AND GROUND ROD	EA	14		
202	16710	TYPE "B" PULL BOX WITH GRAVEL AND GROUND ROD	EA	7		
203	16711	CONDUIT, 1 1/2-IN SCH 80 PVC TRENCH	LF	2,650		
204	16711	CONDUIT, 2-IN SCH 80 PVC TRENCH	LF	310		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
205	16711	CONDUIT, 3-IN SCH 80 PVC TRENCH	LF	325		
206	16711	CONDUIT, 4-IN SCH 80 PVC TRENCH	LF	965		
207	16713	PRE-FORMED LOOPS	EA	36		
208	16715	3-SECTION HORIZONTAL VEHICLE SIGNAL HEAD ASSEMBLY (YELLOW) (RYG) (INCLUDING BACK PLATES)	EA	14		
209	16715	4-SECTION HORIZONTAL VEHICLE SIGNAL HEAD ASSEMBLY (YELLOW) (<R<Y<FY<G) (INCLUDING BACK PLATES)	EA	5		
210	16715	4-SECTION VERTICAL VEHICLE SIGNAL HEAD ASSEMBLY (YELLOW) (<R<Y<FY<G) (INCLUDING BACK PLATES)	EA	5		
211	16719	LED PEDESTRIAN SIGNAL HEAD ASSEMBLY (YELLOW) (SYMBOLIC) (COUNTDOWN)	EA	14		
212	16720	DETECTOR LEAD-IN CABLE 14 AWG IMSA 50-2-1984 (SAWCUT)	LF	230		
213	16720	DETECTOR LEAD-IN CABLE 2C #16 AWG (PREFORMED)	LF	870		
214	16720	3/C-#14 AWG IMSA 19-1-1984	LF	1,100		
215	16720	5/C-#14 AWG IMSA 19-1-1984	LF	1,100		
216	16720	7/C-#14 AWG IMSA 19-1-1984	LF	3,200		
217	16720	#4 AWG THHN SERVICE WIRE	LF	190		
218	16720	#4 AWG SOLID BARE GROUND	LF	190		
219	16724	EMERGENCY VEHICLE PREEMPTION SYSTEM	EA	2		
220	16727	LOOP DETECTOR SAWCUT WITH LOOP WIRE	LF	1,030		
221	16730	ITS CONTROLLER CABINET ASSEMBLY (MODEL 340) (TYPE 2070L)	EA	2		
222	16732	UNINTERRUPTIBLE POWER SUPPLY (UPS) BATTERY BACK-UP SYSTEM FOR TRAFFIC SIGNAL CABINET; FURNISH, INSTALL AND PROGRAM	EA	2		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
223	16733	FIELD HARDENED ETHERNET SWITCH	EA	2		
224	16734	WIMAX (FURNISH & INSTALL)	EA	2		
225	16737	COMMUNICATION SERVICE BOX WITH GRAVEL AND GROUND ROD (PULLBOX - TYPE C, ADJACENT TO THE CONTROLLER CABINET)	EA	2		
226	16750	ACCESSIBLE PEDESTRIAN PUSH BUTTON SYSTEM (CENTRAL CONTROL UNIT AND EIGHT PUSH BUTTON STATIONS, INCLUDING SIGNS)	EA	2		
227	16785	GPS SERIAL COMM MODULE, FURNISH, INSTALL AND PROGRAM	EA	2		
228	02893	Install temporary traffic signal	EA	3		
TOTAL BASE UNIT PRICES (FOR TRAFFIC SIGNAL ITEMS):						\$ _____
TOTAL BASE UNIT PRICES:						\$ _____

C. EXTRA UNIT PRICE TABLE:

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
229	02105	Extra PPCA Handling	LS	1	\$ _____ \$10,000.00 ⁽²⁾	\$ _____ \$10,000.00 ⁽²⁾
230	02120	Extra offsite transportation and disposal of Class I soils	CY	500	\$ _____ \$30.00 ⁽²⁾	\$ _____ \$15,000.00 ⁽²⁾
231	02120	Extra offsite transportation and disposal of Class II Soils	CY	500	\$ _____ \$35.00 ⁽²⁾	\$ _____ \$17,500.00 ⁽²⁾
232	02120	Extra offsite transportation and disposal of contaminated groundwater	GAL	5,000	\$ _____ \$15.00 ⁽²⁾	\$ _____ \$75,000.00 ⁽²⁾
233	02221	Remove miscellaneous concrete and masonry	CY	100	\$ _____ \$15.00 ⁽²⁾	\$ _____ \$1,500.00 ⁽²⁾
234	02318	Excavation around obstructions	CY	100	\$ _____ \$10.00 ⁽²⁾	\$ _____ \$1,000.00 ⁽²⁾

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
235	02120	Excavation around obstructions in PPCA	CY	100	\$ <u> </u> \$10.00 ⁽²⁾	\$ <u> </u> \$1,000.00 ⁽²⁾
236	02318	Extra hand excavation	CY	100	\$ <u> </u> \$20.00 ⁽²⁾	\$ <u> </u> \$2,000.00 ⁽²⁾
237	02120	Extra hand excavation in PPCA	CY	100	\$ <u> </u> \$20.00 ⁽²⁾	\$ <u> </u> \$2,000.00 ⁽²⁾
238	02318	Extra placement of backfill material	CY	100	\$ <u> </u> \$15.00 ⁽²⁾	\$ <u> </u> \$1,500.00 ⁽²⁾
239	02120	Extra placement of backfill in PPCA	CY	100	\$ <u> </u> \$15.00 ⁽²⁾	\$ <u> </u> \$1,500.00 ⁽²⁾
240	02318	Extra machine excavation	CY	100	\$ <u> </u> \$10.00 ⁽²⁾	\$ <u> </u> \$1,000.00 ⁽²⁾
241	02120	Extra machine excavation in PPCA	CY	100	\$ <u> </u> \$10.00 ⁽²⁾	\$ <u> </u> \$1,000.00 ⁽²⁾
242	02318	Extra cement-stabilized sand	CY	100	\$ <u> </u> \$25.00 ⁽²⁾	\$ <u> </u> \$2,500.00 ⁽²⁾
243	02120	Extra cement-stabilized sand within PPCA Limits	CY	100	\$ <u> </u> \$25.00 ⁽²⁾	\$ <u> </u> \$2,500.00 ⁽²⁾
244	02501	Extra ductile Iron compact fittings in place	TON	1	\$ <u> </u> \$1,000.00 ⁽²⁾	\$ <u> </u> \$1,000.00 ⁽²⁾
<u>TOTAL EXTRA UNIT PRICES</u>						\$ <u> </u>

D. CASH ALLOWANCE TABLE:

Item No.	Spec Ref.	Cash Allowance Short Title	Cash Allowance in figures (1)
245	01110	City of Houston Street Cut Permits	\$10,000.00 ⁽¹⁾
246	01110	New or removal and relocation of street lights by Centerpoint Energy, including all related appurtenances, complete in place	\$25,714.00 ⁽¹⁾
247	01110	TDLR Inspection	\$1,000.00 ⁽¹⁾
<u>TOTAL CASH ALLOWANCES</u>			<u>\$36,714.00⁽¹⁾</u>

E. ALTERNATIVES TABLE

Item No.	Spec Ref.	Alternate Short title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total Price for Alternative in figures
		N/A				
<u>TOTAL ALTERNATIVES</u>						\$ _____

F. TOTAL BID PRICE

\$ _____

(Add Totals for A., B., C., D., and E. above)

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder:

(Print or type full name of your proprietorship, partnership, corporation, or joint venture.*)

**** By:**

Signature

Date

Name:

(Print or type name)

Title

Address:

(Mailing)

(Street, if different)

Telephone and Fax Number:

(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.

** Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder by crossing out the Minimum and noting revised price on the line above.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased but not increased by Bidder by crossing out the Maximum and noting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

Section 01110

SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work including work by the City, City-furnished Products, work sequence, future work, Contractor use of Premises, special conditions for substantial completion and City occupancy.
- B. Justification: Project will construct storm sewer improvements to address and reduce the risk of structural flooding. Improvements include installing parallel storm sewer system, new water lines, sanitary sewer, and new roadway.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. Work of the Contract is for the construction of WIRT ROAD DRAINAGE AND PAVING SUB-PROJECT II; WBS No. M-000287-0002-4, This includes reconstruction of following streets:

STREET	LENGTH (FT)
WIRT	4,850
SHOSHONE	1,200
KILBURN	685
HALDANE	615
HARWOOD	610
HAMMERLY	100
KEMPWOOD	100

TOTAL	8,160
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- B. Work on the contract is for construction of reinforced concrete paving, drainage, potable water system, wastewater system, street lighting, and tree protection. This includes obtaining necessary permits from City of Houston and other jurisdictional entities, government and non-governmental with oversight on this project, e.g. CenterPoint Energy, and others.
- C. Demolition and removal work includes but is not limited to removal of existing concrete and asphalt pavements, curbs and gutters, driveways and sidewalks, drainage lines, potable waterlines, wastewater facilities, inlets, trees, landscaping, miscellaneous signs and sign foundations, and other items, to facilitate construction of this project. The removal and disposal of miscellaneous abandoned utility lines (all sizes), cables, etc. encountered during demolition or excavation activities shall be incidental to the cost of the demolition or excavation item.
- D. Water line construction includes replacement of the existing water line with a proposed water line and intersection and service tie-ins as follows:

- a. Replacement of existing 12-inch CI water line with a proposed 12-inch water line along Wirt Road from approximately 200 feet north of Long Point Road to Kempwood Drive. Replacement of existing 12-inch and 8-inch water lines with proposed 12-inch and 8-inch water lines within the Wirt Road and Kempwood Drive intersection. The 8-inch water line within the intersection is suspected to be a fire line.
- b. Replacement of water service lines along Wirt Road and within the area bounded by Shoshone/Kilburn/Haldane/Harwood construction limits.
- c. Per the Phase I Fault Study, there is a fault zone along Wirt Road ranging from approximately stations 11+60 to 14+10. Contractor to use flexible expansion joints for the proposed 12-inch water line. Contractor to use EBBA Iron, Inc. Flex-Tend #408M20 or approved equal. All materials and labor to perform and install this work will be paid in accordance with the provided bid items as specified in Document 00410 – Bid Form, Parts A & B.

All un-metered fire lines, large water meters, or isolation valves shall be field-located before installing the new pipes. The information shown on the drawings is approximate, based on available record drawings, field observations and surveys.

Based on field conditions, City of Houston may elect to cut, plug and abandon existing water line in lieu of removing and disposing of the existing waterline. Items from the water line to be abandoned, such as valves and fire hydrants that are being removed and salvaged will be delivered to the Utility Maintenance Quadrant Facility at 7101 Renwick. Water line construction activities will be performed to maintain continuous water service to residents throughout the duration of the project. Existing fire hydrants in the project limits will either remain, be replaced or be salvaged, as stated on the plans. Water meters and valves shall be adjusted to the new grade, or relocated, as stated on the plans.

The construction methods to be employed for the proposed water line are open cut and auger methods. Auger method is to be used for installation of water line in order to preserve the existing trees in the project area unless in areas where water line alignment and physical connections are deemed necessary to perform open cut method. All materials and labor to perform and install this work will be paid in accordance with the provided bid items as specified in Document 00410 – Bid Form, Parts A & B.

Abandoned water lines are located along Shoshone Road, Kilburn Road, Harwood Drive, and Haldane Drive. The abandoned line range in size from 2-inch to 6-inch per City of Houston GIMS. If abandoned water line conflicts with proposed improvement, contractor to remove, depose, and plug abandoned line. Cost for removal, disposal, and plugging of water line is incidental to cost of installation of improvement.

- E. Wastewater line construction includes replacement of the existing wastewater lines and reconnection of service lines as follows:
 - a. Placement of new 8-inch wastewater line with manholes along Shoshone Road from Wirt Road to Haldane Drive, including Shoshone Road Cul-De-Sac
 - b. Placement of new 10-inch wastewater line with manholes along Kilburn Road from Wirt Road to Wirtcrest Lane

- c. Placement of new 8-inch wastewater line with manholes along Haldane Drive from Kilburn Road to 100-feet north of Shoshone Road
- d. Placement of new 8-inch wastewater line with manholes along Harwood Drive from Kilburn Road to 100-feet north of Shoshone Road
- e. Placement of new 12-inch wastewater line along Wirt Road from Shoshone Road to Hammerly Boulevard
- f. Placement of new 8-inch and 21-inch wastewater line along Wirt Road from Hammerly Boulevard to Amelia Road
- g. Placement of new 24-inch wastewater line along Wirt Road from Amelia Road to Long Point Road
- h. Placement of new 24-inch along Long Point Road from Wirt Road to approximately 300 feet east of Wirt Road at an existing wastewater manhole on 48-inch trunk line

Wastewater line construction activities will be performed to maintain continuous wastewater service to residents throughout the duration of the project.

The construction methods to be employed for the proposed wastewater lines are open cut and trenchless methods. All materials and labor to perform and install this work will be paid in accordance with the provided bid items as specified in Document 00410 – Bid Form, Parts A & B.

If Contractor encounters water service lines during sanitary sewer construction, Contractor shall repair any damaged service lines promptly to avoid extended water service interruptions. The cost related to preserving the existing water service lines are incidental to all other pay items and are at no additional cost to the City of Houston.

Contractor to note there are existing sanitary service leads within project limits. Existing leads may be damaged during construction or providing insufficient service. As such, contractor to install new sanitary service leads with or without stacks to right-of-way. All materials and labor to perform and install this work will be paid in accordance with the provided bid items as specified in Document 00410 – Bid Form, Parts A & B.

No separate payment for post construction closed circuit television of new sanitary sewer lines. Contractor to include the price under the bid item installation of the new sanitary sewer lines.

- F. Storm sewer construction includes proposed storm sewer inlets, manholes, and leads and construction of new storm sewer junction boxes including:
 - a. Placement of new 54-inch storm sewer along Wirt Road from Shoshone Road south to Hammerly Boulevard with inlets and manholes.
 - b. Placement of new 30-inch storm sewer along Shoshone Road from Wirt Road west to Haldane Drive with inlets and manholes.
 - c. Placement of new 30-inch storm sewer along Kilburn Road from Wirt Road to

Haldane Drive with inlets and manholes.

- d. New 24-inch storm sewer along Harwood Drive from Kilburn north with inlets and manholes.
- e. New 24-inch storm sewer with inlets and leads along Haldane Drive at the Kilburn Road and Shoshone Road Intersections.
- f. Replacement of undersize inlet leads and back of curb offsite drainage systems with various size pipe (12-inch to 24-inch) including new inlets and small junction boxes.
- g. Contractor to use TxDOT Specification 465 "Manholes and Inlet" for Inlet 1601 at Sta. 4+97. TxDOT Specification 465 has been added to this project manual. All other specifications referenced in TxDOT Specification 465 can be found online at <https://www.dot.state.tx.us/business/specifications.htm>
- h. Before contractor connects proposed storm sewer to existing junction box or adjust top to fit new grade, the City inspector shall inspect the junction box and if necessary require the contractor to remove and replace the junction box.

G. Pavement construction includes reconstruction of the following streets:

- a. Wirt Road from Long Point Road to Kempwood Drive with 10-inch concrete boulevard pavement with 6-inch curb over 8-inch stabilized subgrade utilizing 6% lime.
- b. Shoshone Road with 27-foot F-F wide, 6-inch concrete pavement with 6-inch curb over 6-inch stabilized subgrade utilizing 6% lime.
- c. Kilburn Road with 27-foot F-F wide, 6-inch concrete pavement with 6-inch curb over 6-inch stabilized subgrade utilizing 6% lime.
 - i. The City has granted a variance for the southwest corner of Wirt Road and Kilburn Road intersection to allow for a sub-standard radius of 20-feet.
- d. Harwood Drive with 27-foot F-F wide, 6-inch concrete pavement with 6-inch curb over 6-inch stabilized subgrade utilizing 6% lime.
- e. Haldane Drive with 27-foot F-F wide, 6-inch concrete pavement with 6-inch curb over 6-inch stabilized subgrade utilizing 6% lime.
- f. Kempwood Drive intersection with Wirt Road, 10-inch concrete boulevard pavement with 6-inch curb over 8-inch stabilized subgrade utilizing 6% lime.
- g. Hammerly Boulevard Drive intersection with Wirt Road, 10-inch concrete boulevard pavement with 6-inch curb over 8-inch stabilized subgrade utilizing 6% lime.
- h. High early strength concrete pavement to be used at the intersections of Wirt Road and Hammerly Boulevard and at Wirt Road and Kempwood Drive as shown in the plans.
- i. Existing concrete historical monuments are located within the Shoshone/Kilburn

neighborhood. Contractor shall take caution during construction activities not to damage monument. Any damage to existing monument must be replaced to original condition at no cost to the City.

Access to all driveways shall be maintained at all times unless Contractor notifies adjacent property owner(s) a minimum of seven days when access to driveways will be denied due to construction. Contractor shall provide access to driveways using the typical commercial and residential driveway opening details provided once construction activities permit.

- H. Sidewalk work includes construction of 4'-6' foot wide by 4 ½ inch thick concrete sidewalks, and other pedestrian elements in accordance with City of Houston requirements, the American with Disabilities Act and Texas Accessibility Standards. TDLR Permit (**EABPRJB58070143**) will be necessary to obtain acceptance of the Work based on final inspection by a Registered Accessibility Specialist. TDLR final inspection will be arranged by Engineer and will be completed at the request of the Contractor prior to acceptance of project.
- I. Contractor will be responsible to coordinate with residents and the HOA on handling any private features within the right-of-way a minimum of 72 hours prior to any construction activities which may impact these features. The features may include, but are not limited to: existing irrigation systems (including spray and rotary heads and related piping and electrical wiring), mailboxes, landscaping, and existing yard drains. All landscaping, irrigation and private electrical conduits and/or equipment including sprinkler systems which are affected by the construction of the proposed pavement, driveway, sidewalk, storm sewer, sanitary sewer, and/or water line replacement and/or due to contractor activities, will be considered incidental to various construction bid items included in Document 00410 – Bid Form , Parts A&B. Contractor shall use caution while working within the proximity of these types of facilities to avoid impacts. Should impacts occur, restoration shall be to a condition that is equal to or better than prior to the start of construction. The repair or replacement of these types of facilities, necessitated by construction activities, will be the contractor's responsibility at no cost to the City of Houston. Contractor should verify the operation of irrigation systems with the property owner prior to starting construction.
- J. Tree protection work includes clearance pruning, tree protection fencing, root pruning, tree removal, tree replacement, etc. as required to comply with the City's Street Tree Ordinance.
- K. Contractor to place sodding along the back of the curb and/or back of the sidewalk throughout the project as applicable. All disturbed areas where concrete, asphalt, sodding, or other items are not placed shall be hydro-mulched. Sodding shall be installed and paid for in accordance with Specification Section 02922 – Sodding. Hydro Mulch seeding shall be installed and paid for in accordance with Specification Section 02921 – Hydro Mulch Seeding.
- L. The construction of traffic signals at Hammerly Boulevard and Kempwood Road intersections will include the removal of the existing traffic signals and related hardware. The proposed traffic signals and temporary traffic signals will be constructed as indicated on the plans. All materials and labor to perform and install this work will be paid in accordance with the provided bid items as specified in Document 00410 – Bid Form, Parts A & B. Per Specification Section 01555, the temporary signals are incidental to the Traffic Control and Regulation Lump Sum (LS)

pay item in Document 00410 – Bid Form, Parts A & B.

- M. Traffic signing and pavement markings as shown on the plans. The Contractor shall inventory existing signs before construction and shall be responsible for safe-guarding existing signs so that they remain visible and upright. The Contractor shall be responsible for replacing remaining proposed signs including the poles and anchors as shown on the plans and in accordance to COH Spec 01554. All materials and labor to perform and install this work will be paid in accordance with the provided bid items as specified in Document 00410 – Bid Form, Parts A & B. Removal of signs is incidental to the installation on new signs.
- N. Street lighting work includes installation of approximately 1,900 LF 2-inch PVC conduit and pull boxes per CenterPoint Energy specifications (pull boxes and warning tape may be supplied by CenterPoint Energy when 45 day notice is received) and coordination with City of Houston Street Lighting Section (contact Leaneice Brown 832-395-3003) prior to beginning work on this item. All conduit and pull boxes shall be installed per the street lighting plan. The contractor is to install conduit stub ups at the proposed streetlight location where the streetlight power sources are proposed. The contractor is also responsible for the removal of any existing streetlight foundations or adjusting foundations below finished, which will be incidental to "Remove and Dispose of Concrete Sidewalk and Driveways (All Thickness)" in Document 00410 – Bid Form, Parts A & B. CNP will be responsible for removing and reinstalling existing street light poles when given a 30-day advance notice. The proposed street lights on metal poles are standard "Cobra" street lights, as stated on the plans, which will be direct buried without foundations. Contractor shall coordinate with CNP Lighting Design Section including scheduling and removal and installation of street lights and inspection of the conduit and pull boxes. The cost and materials provided under this contract are subject to the approval of Centerpoint Energy and City of Houston- Traffic and Transportation Division for items provided.
- O. The contractor will be responsible to maintain adequate traffic control for the duration of the project, as provided in the plans. Traffic control will be in accordance with the latest version of the Texas Manual of Uniform Traffic Control Devices (TMUTCD). Lane closures for traffic control shall be done in 800-foot steps. Consecutive intersection closures within the step is not allowed. If contractor wishes to deviate from the approved traffic control plans, then the contractor is to submit revised traffic control plans for review a minimum of 7 calendar days before traffic control plan is implemented. The plans must be signed and sealed by a licensed professional engineer in the state of Texas and approved by the City of Houston and EOR.
- P. When implementing the phases for traffic control, contractor is limited to 800-foot steps for road closures and consecutive esplanade openings or intersections closures are not allowed. The steps for the phases of the traffic control shall be rolling 800-foot active traffic control steps.
- Q. The contractor will be responsible to use caution and due diligence where the proposed improvements are in proximity to existing private utilities including gas lines, buried or overhead cables, etc., so as to not adversely impact such private utilities inside the project area. The contractor will contact and coordinate with the private utility agencies whose facilities may be impacted by the proposed improvements, as required.
- R. Above ground gas meters in conflict with project construction shall be relocated to the right-of-way by a licensed master plumber, including all necessary reconnections to

the associated property. Cost for gas meter relocations is included as a cash allowance in Document 00410 – Bid Form Parts A & B.

- S. The contractor will be responsible to acquire the necessary permits, and to protect in-place, to remove, replace, or store existing trees within the project right-of-way in accordance with standards, specifications, details, and the Tree Protection Plan (TPP). Trees in the TPP designated to be removed due to sidewalk or paving construction shall be evaluated by the contractor's urban forester during construction. Those trees deemed to be unaffected by the sidewalk construction shall remain in place and scheduled tree planting shall be adjusted accordingly.
- T. The contractor will be responsible to implement the Storm Water Pollution Prevention Plan (SWPPP) and use best practices during construction and is responsible for associated permit fees.
 - a. Phase 1 consists of placement of inlet protection barriers near the construction area for inlets potentially contaminated by flow from construction.
 - b. Phase 2 consists of placement of inlet protection barriers near the construction area for inlets potentially contaminated by flow from construction.

Project construction activities will disturb an area greater than 5 acres. See Section 01410 – TPDES Requirements. Contractor shall be responsible for all fees, including filing notices, filings and permits, associated with SWPPP and TPDES requirements at no additional cost to the City of Houston. The Cash Allowance for TPDES permit is limited to the application fee for the Notice of Intent for Storm Water Discharge Associated with Construction Activity under TPDES General Permit.

- U. Contractor shall provide a uniformed police officer to direct traffic when one or more lanes are obstructed or stopped to facilitate construction activities per City of Houston Specification 01555. Contractor shall notify local police department, fire department, City of Houston and METRO a minimum of ten days before road closures or detours.
- V. No separate payment will be made for PVC yard drains. Surface restoration under Section 01145 – Use of Premises, cover PVC yard drains as incidental work to restore the site to existing condition before construction or better.
- W. The contractor will be responsible for obtaining all necessary permits, including, but not limited to: lane closure, street cut, driveway, and tree removal. Permits that are required and are not paid under Cash Allowances are incidental to all other pay items and are at no additional cost to the City of Houston.
- X. There is a record of environmental contamination within the limits for the project based on the conclusions in the Limited ESA Phase II Report No. 9155H-P2 dated 09-18-14, prepared by Berg-Oliver Associates. The contaminated soil is classified as Category I non-hazardous waste and Category II hazardous waste. Potentially Petroleum Contaminated Area (PPCA) limits are shown on plans. The following areas have been identified with petroleum hydrocarbon impacted soil:
 - a. Mundo Auto Sales located at 2061 Wirt Road – Southwest corner of Wirt Road and Hammerly Boulevard intersection
 - b. Barri Loans/former Jiffy Lube at 2064 Wirt Road – Southeast corner of Wirt Road

and Hammerly Boulevard intersection

- c. Handi Stop No. 50 at 2330 Wirt Road – Southeast corner of Wirt Road and Kilburn Road intersection
- d. Wells Fargo Bank/former gas station at 7846 Long Point Road and Shopping Center at 7824 Long Point Road – Northeast corner of Wirt Road and Long Point Road intersection.

As per the Limited ESA Phase II report dated 09-18-14, prepared by Berg-Oliver Associates, removal and disposal of contaminated Category I non-hazardous soil/waste as defined by TCEQ and/or contaminated ground water will not be necessary as long as contaminated soil is not placed within top 30-inches of the roadway profile. Category II hazardous waste is to be removed and disposed of per Specification 02120 – Offsite Transportation and Disposal.

- a. The preparatory work and underground construction work in PPCA will be performed in accordance with Section 02105 – Chemical Sampling and Analysis and 02120 – Offsite Transportation and Disposal.
- b. Within PPCA limits, all water lines shall be steel with welded joints. Steel pipe shall be protected as per Specification 02501 with polyethylene encasement material. Use Viton (FKM) type gaskets, or approved equal, for water lines and appurtenances requiring gaskets.
- c. Within PPCA limits, all sanitary sewer shall be centrifugally cast fiberglass pipe. Use nitrile rubber type gaskets, or approved equal, for sanitary sewers, manhole joints, and appurtenances.
- d. Within PPCA limits, use nitrile gaskets, or approved equal, for storm sewers, manhole joints, and appurtenances.
- e. Preparatory work, disposal of soil excavation/groundwater, and special gaskets related to or within the PPCA shall be in conformance with Specifications 02105 and 02120. No separate pay item for gaskets or polyethylene encasement material, incidental to unit price of water lines and/or sanitary sewers.
- f. As a precautionary measure, the Contractor shall monitor the excavated soils for any unusual odors near the PPCA limits. If any odors are present in the excavated soil, the contractor shall segregate the suspected portion for inspection by a qualified representative. Air monitoring for contamination levels during utility construction is not a separate pay item. It is incidental to unit price of "Preparatory work for sampling and analysis in PPCA" paid as lump sum included in 410B.
- g. The recycling/landfill facility may request additional soil sampling prior to acceptance of excavated soil. Bidder(s) must entirely evaluate and take the soil conditions into account for successful implementation of the work as per Geotechnical and ESA Phase II reports.

If field conditions differ from the ESA Phase II report, Contractor shall notify the Engineer and perform sampling and analysis of soil (paid as lump sum item "Preparatory work for sampling and analysis" in the 410B). If transportation and disposal of contaminated soil is then required, the quantities for the soil disposal and

contaminated ground water disposal are accounted for open cut utility construction in the limits mentioned in the ESA Phase II report and included in "Extra Items" in 00410B. The unit prices for soil disposal and contaminated ground water disposal also includes any other associated costs for treatment and disposal of contaminated soil and/or ground water

Y. Geotechnical Investigation:

- a. For bidding and construction purposes, Bidder shall take full responsibility for interpretation and use of information contained in Report No. 1140197101, prepared by the firm of Geotest Engineering Inc., entitled **Geotechnical Investigation Wirt Road Drainage and Paving Sub-Project II Design WBS No. M-000287-0002-3**, consisting of 115 pages. An electronic version of this report is included on a CD-ROM affixed to the inside cover of the project manual. The report will be an electronic file.

Z. Environmental Site Investigations:

- a. For bidding and construction purposes, Bidder shall take full responsibility for interpretation and use of information contained in Report No. 9155H-P1-2, prepared by the firm of Berg – Oliver Associates, Inc., entitled **Phase I Environmental Site Assessment Wirt Road Drainage and Paving Sub-Project No. 2 WBS No. M-000287-0002-3**, consisting of 379 pages. An electronic version of this report is included on a CD-ROM affixed to the inside cover of the project manual. The report will be an electronic file.
- b. For bidding and construction purposes, Bidder shall take full responsibility for interpretation and use of information contained in Report No. 9155H-P2, prepared by the firm of Berg – Oliver Associates, Inc., entitled **Limited Phase II Environmental Site Assessment Wirt Road Drainage and Paving Sub-Project No. 2 WBS No. M-000287-0002-3**, consisting of 314 pages. An electronic version of this report is included on a CD-ROM affixed to the inside cover of the project manual. The report will be an electronic file.

AA. Geological Site Investigation:

- a. For bidding and construction purposes, Bidder shall take full responsibility for interpretation and use of information contained in Report No. 69-14, prepared by the firm of Crouch Environmental Services, Inc., entitled **Phase I Fault Study Wirt Road Drainage and Paving Sub-Project No. 2 WBS No. M-000287-0002-3**, consisting of 66 pages. An electronic version of this report is included on a CD-ROM affixed to the inside cover of the project manual. The report will be an electronic file.

BB. Field Office:

- a. Refer to 01502 – Mobilization and 01520 – Temporary Field Office. A field office is required for this project. Cost is incidental to Bid Item for Mobilization.

CC. Project Identification Sign:

- a. Refer to 01580 – Project Identification Signs. Two Project Identification signs are required for this project located within the right of way, one at each end of the project. Cost is incidental to Bid Item for Mobilization.
- DD. Restoration of all landscaping, grass materials, positive drainage (swales, ditches, pipe drains and appurtenances) shall be the sole responsibility of the Contractor(s) and done at their expense.
- EE. General Notes
 - a. Refer to Plan Sheet Number 3 for all applicable general notes for this project.
- 1.03 CASH ALLOWANCES
 - A. Include the following specific Cash Allowances in Contract Price under provision of General Conditions Paragraph 3.11:
 - a. CenterPoint Energy Street Lighting
 - b. Street Cut Permit
 - c. TDLR Inspection
- 1.04 ALTERNATES
 - A. From the following list of Alternates, amount included in Contract Price for only those Alternates accepted by the City and listed in the fully executed Document 00520 – Agreement, Paragraph 3.2:
 - a. NONE
- 1.05 CITY-FURNISHED PRODUCTS
 - A. Items Furnished by the City for Installation and final connection by Contractor:
 - a. Water Meters
 - B. Items which will be furnished by Centerpoint Energy (CNP) when a 45 day notice is provided:
 - a. Pull Boxes
 - b. Warning Tape
 - C. Contractor's Responsibilities:
 - a. Contractor will supply all new construction materials as outlined in Schedule and Unit Price Work, Document 00410.
 - b. Arrange and pay for Product delivery to the site.
 - c. Receive and unload Products at the site; jointly with the City, inspect for completeness or damage. Handle, store, install, and finish products.
 - d. Repair or replace damaged items.
 - e. Secure all lighting, watering and other miscellaneous permits and expenses.
 - f. Secure space for storage, work facilities, office, on-site communications, etc. at no additional charge to the City of Houston.
 - g. A service connection tap shall be provided for each existing water meter. The Contractor shall not install service leads for vacant lots. Call Substitute Service Coordinator at 832-395-2057 before installing service leads for abandoned structures with or without meters.
 - h. All signal timing plans and requests shall be routed to the City of Houston Traffic & Transportation Division – Traffic Operations Branch for both temporary and final phases of timing adjustments.

1.06 WORK SEQUENCE

- A. Construct the Work in Phases during the construction period, coordinate construction schedule and operations with the City:
 - a. Phase 0: Construct Temporary Pavement within the Shoshone/Kilburn S/D
 - b. Phase 1: Construct southbound side of Wirt Road from Kempwood Drive to Long Point Road including waterline and storm sewer. Construct westbound lane of Kilburn Road, eastbound lane of Shoshone Road, southbound lane of Harwood Drive, and northbound lane of Haldane.
 - c. Phase 2: Construct northbound side of Wirt Road from Kempwood Drive to Long Point Road including the sanitary sewer and storm sewer. Construct eastbound lane of Kilburn Road, westbound lane Shoshone, northbound lane of Harwood Drive, and southbound lane of Haldane Drive.
- B. Coordination of the Work: Refer to Section 01312 - Coordination and Meetings.

1.07 CONTRACTOR USE OF PREMISES

- A. Comply with procedures for access to the site and Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises.
- B. Construction Operations: Limited to the City's rights-of-way provided by the City and areas shown or described in the Contract documents.
- C. Utility Outages and Shutdown: Provide a minimum of 48 hours notice to the City and private utility companies (when applicable), excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.
- D. Private Utility Relocations: Pursuant to Section 40-395 of the City of Houston (City) Utility Relocation Ordinance Program (URO), the following private utilities were identified and scheduled for relocation within the scope of the project limits. Based upon the relocation schedules provided by the utility owners, the City anticipates these relocations to be completed by the dates listed below, and unless otherwise stated, clearance of these potential obstructions will be performed by their respective owners.

The following is a description of the private utilities identified for relocation within the project limits:

Utility Owner	Type of Facility	Approximate Location	Estimated Clearance Date	Anticipated Effect to Construction
AT&T Texas	Buried Cables	Wirt Road: Sta 4+20 to 11+80, Sta. 37+00 to 50+75, Sta. 30+75 to 32+50, Sta. 34+75 to 52+75, Sta. 52+65	October 2015	XXXX

CenterPoint Gas	2" and 4" Gas Line	Wirt Rd: Sta. 44+56 Shoshone Rd: Sta. 1+00 to 14+00 Kilburn Rd: Sta. 1+00 to 7+31 Harwood Dr: Sta. 0+70 to 7+30 Haldane Rd: Sta. 0+00 to 7+32 Wirt Rd: Sta. 5+00 to 29+00	September 2015	XXXX
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The relocation of these facilities is not anticipated to interfere with Contractor's operations, but Contractor shall develop the project construction schedule and bid accordingly. In the event that the clearance dates are deviated and proven to impact contractor's schedule, Contractor shall notify the construction project manager per Article 7 – Changes in the Work under Document 00700 - General Conditions. Contractor is invited to review all information of potential obstructions currently on file with the Engineer.

Contractor to note AT&T and Centerpoint maybe on the project site completing relocation work. AT&T and Centerpoint should begin any relocation on the west side of Wirt Road near Long Point Drive and work north towards Kempwood Drive. Barring any unforeseen delays in utility relocation, AT&T and Centerpoint should not interfere with Phase 1 construction activities and should be completed before Phase 2 activities begin.

1.08 STREET CUT ORDINANCE

- A. Excavations on or under pavement in the City's right-of-way must have a permit. Comply with City of Houston, Texas Ordinance No. 2000-1115, an ordinance amending Chapter 40 of the Code of Ordinances, Houston, Texas, relating to excavating in the Public right-of-way.
- B. Comply with the latest edition of street cut New Pavement Repair and Pavement Replacement details.
- C. Quantities are included for street cut pavement repair and replacement in applicable Specification sections for Unit Price contracts.
- D. For detailed information concerning the ordinances' latest detail drawings and permits related to compliance with excavation in the Public Right-of-Way and Street Cut, visit the City's website at: <http://edocs.publicworks.houstontx.gov/all-documents/engineering-and-construction.html> or <http://www.gims.houstontx.gov/>

1.09 WARRANTY

- A. Comply with warranty requirements in accordance with Document 00700 - General Conditions.

1.10 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

- A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection by Project Manager to confirm, the following conditions must be met or completed:
 - a. All Safety-related work including, pavement striping, signing and signalization, is

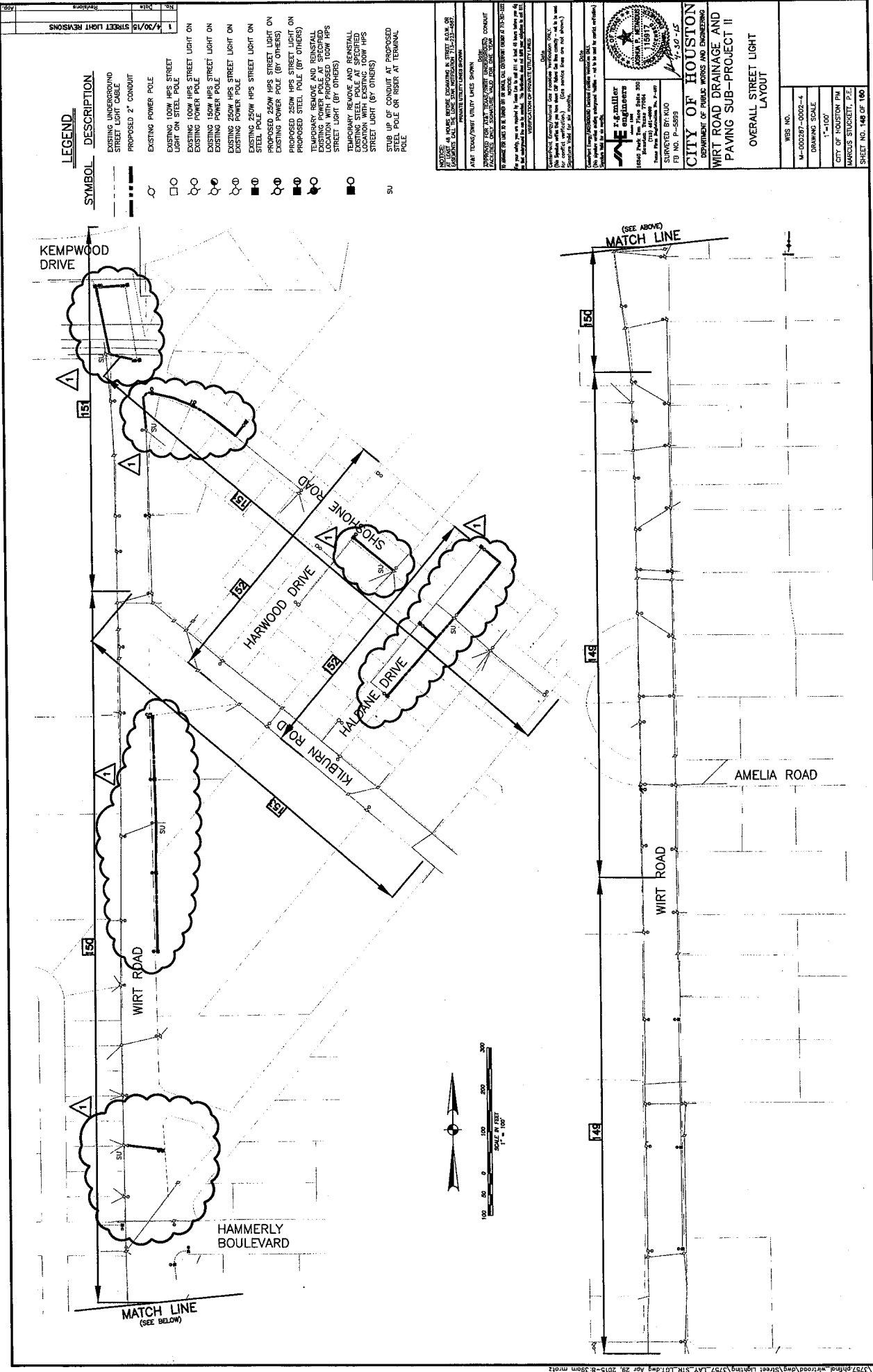
completed and accepted by Project Manager.

- b. All pay items complete report.
 - c. All testing shall be completed and accepted by Project Manager.
 - d. All safety systems and equipment shall be installed, accepted by manufacturer's representative (per Specification requirements) and approved for use.
 - e. Contractor shall contact Construction Project Manager to complete Texas Department of Licensing and Regulation Post Construction Inspection of sidewalks, wheelchair ramps and other pedestrian elements for compliance with Texas Accessibility Standards.
 - f. Traffic is operating in all lanes at all times, unless lane reductions are due to adjacent construction projects.
 - g. All services and utilities are operational.
- B. No additional condition described in Paragraph 1.10 may be included in Contractor's punch list.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION



LEGEND

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EXISTING POWER POLE

EXISTING 100W HPS STR
LIGHT ON STEEL POLE

EXISTING 100W HPS STR
EXISTING POWER POLE

EXISTING 150W RF-3 SIM
EXISTING POWER POLE

EXISTING POWER POLE

STEEL POLE
PROPOSED 250'W HPS S'PROPOSED 250W HPS S

TEMPORARY REMOVE AND

LOCATION WITH PROPOSED STREET LIGHT (BY OTHER)

PROPOSED 100W HPS S
EXISTING POWER POLE (

STUB UP OF CONDUIT A
STEEL POLE OR RISER A

NOTICE:
AT LEAST 48 HOURS BEFORE EXCAVATING

PRIVATE UTILITY LINES:

APPROVED FOR AT&T TEXAS/SWIFT UNIVERSITIES ONLY SIGNATURE VALID FOR

NOTICE: Your safety, you are reminded by Texas Law to call 811 before you dig. For details on the location of all underground utilities, call 811.

VERIFICATION OF PRIVATE U

WinterPoint Energy/Natural Gas Facilities (Gas service coordinated ventilation)

RECORDED AND INDEXED

is signature varies with underground facilities - see
specimen held for six months.

**F. G. Zimmer
engineers**

1040 Park Ten Place Suite 300
Houston, Texas 77064
(713) 481-9000

SURVEYED BY: KUO
 FB NO. P-5899

CITY OF HOVIRT ROAD DRAIN

STREET LIGHTING

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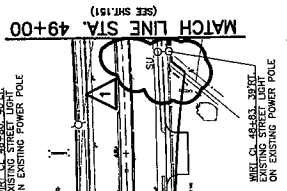
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DRAWING SCALE

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MARCUS STUCKETT, P.E.

Addendum N

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